

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
Under 37 CFR 1.97(b), (c), or (d)

Docket No.  
YOR920030522US1

In re Application of: Liu, et al.

Serial No.  
10/726,002

Filing Date  
December 1, 2003

Examiner

Group Art Unit

**METHOD AND APPARATUS FOR VIRTUALIZING NETWORK RESOURCES**

Address to:  
Commissioner for Patents  
Alexandria, VA 22313-1450

**37 CFR 1.97(b)**

The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☒ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), but prior to the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by the statement or fee as indicated below.

**37 CFR 1.97(d)**

3. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(c), but on or before payment of the issue fee and is accompanied by the statement and fee as indicated below.

**Required Statements and/or Fees Under 37 CFR 1.97(c) or (d)**

- ☐ Each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement. (37 CFR 1.97(e)(1))
- ☐ No item of information in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned person, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement. (37 CFR 1.97(e)(2))
- ☐ The fee set forth in 37 CFR 1.17(p). Please credit any overpayment or charge any insufficiencies to deposit account number 20-0782.

**37 CFR §1.704(d)**

4. ☐ Each item of information in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Kin-Wah Tong  
Reg. No. 39,400

Moser, Patterson & Sheridan, LLP  
Attorneys at Law  
595 Shrewsbury Avenue, Suite 100  
Shrewsbury, New Jersey 07702  
732-530-9404

Dated: 2/27/04

**Certificate of Mailing by First Class Mail**

I certify that this document is being deposited on 3-1-2004 with the U.S. Postal Service as first class mail under 37 CFR §1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Signature of Person Mailing Correspondence

Barbara J. Jackson

Typed or Printed Name of Person Mailing Correspondence

U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		YOR920030522US1	10/726,002
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Applicant Liu, et al.	Confirmation No.:
(Use several sheets if necessary)		Filing Date	Group
Examiner		December 1, 2003	

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A1						
	A2						

**Foreign Patent Documents**

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
	B1						<input type="checkbox"/>	<input type="checkbox"/>
	B2						<input type="checkbox"/>	<input type="checkbox"/>

**OTHER ART**

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
✓	C1	Aggarwal, et al., "Finding Generalized Projected Clusters in High Dimensional Spaces," SIGMOD-00, 2000
✓	C2	Banavar, et al., "An Efficient Multicast Protocol for Content-Based Publish-Subscribe Systems," Intl Conf on Distributed Computing Systems, (ICDSC '99) Austin, TX, May1999, 262-272
✓	C3	Banerjee et al., "Scalable Application Layer Multicast," ACM Sigcomm, August 2002
✓	C4	Chang, et al., "Scalable and Efficient Update Dissemination for Interactive Distributed Applications," ICDCS 2002, July 2002, Vienna 1-9
✓	C5	Chu et al., "Enabling Conferencing Applications on the Internet using an Overlay Multicast Architecture", Proceedings of ACM SIGCOMM, San Diego, CA, August 2001
✓	C6	Chu et al., "A Case For End System Multicast", Proceedings of ACM Sigmetrics, Santa Clara, CA, June 2000, pp 1-12
✓	C7	El-Sayed, et al., "A Survey of Proposals for an Alternative Group Communication Service," IEEE Network, Jan/Feb 2003, 2-7
✓	C8	Jain, et al., "Data Clustering: A Review," ACM Computing Surveys, 31 (3), Sept. 1999, 264-323
✓	C9	Krishnamurthy, et al., "On Network-Aware Clustering of Web Clients," SigCOMM 2000
✓	C10	Liebeherr, et al, "Application-Layer Multicasting with Delaunay Triangulation Overlays," IEEE GLOBECOM '01, November 2001
✓	C11	Morse, et al., "Interest Management in Large-Scale Virtual Environments," Presence, 9(1), Feb 2000, 52-68

U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		YOR920030522US1	10/726,002
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Applicant Liu, et al.	Confirmation No.:
(Use several sheets if necessary)		Filing Date	Group
Examiner		December 1, 2003	

✓	C12	Ng et al., "Predicting Internet Network Distance with Coordinates-Based Approaches", © 2000 IEEE, INFOCOM'02, New York, NY, June 2002
✓	C13	Popescu, et al., "Method and apparatus to Support Application And Network Awareness Of Collaborative Applications Using Multi-Type Attribute Clustering," U.S. Patent Application, Serial No. 10/725,298, Filed December 1, 2003
✓	C14	Popescu, et al., "Method and Apparatus for Providing Dynamic Group Management For Distributed Interactive Applications," U.S. Patent Application, Serial No. 10/723,227, Filed November 26, 2003
✓	C15	Ratnasamy, et al., "A Scalable Content-Addressable Network," Proc ACM SIGCOMM '01, August 27-31, 2001, San Diego, CA 161-172
✓	C16	Riabov, et al., "Clustering Algorithms for Content-Based Publication-Subscription System," Proc. 22 <sup>nd</sup> Intl Conf Distributed Computing Systems (ISDCS'02), 1-10
✓	C17	Stoica, et al., "Internet Indirection Infrastructure," SIGCOMM '02 Pittsburgh, PA, USA © 2002,
✓	C18	Stoica, et al., "Chord, A Scalable Peer-to-peer Lookup Service for Internet Applications," Proc of ACM SIGCOMM '01, August 27-31, 2001, San Diego, CA 149-160
✓	C19	Wong, et al., "An Evaluation of Preference Clustering in Large-Scale Multicast Applications," IEEE INFOCOM 2000, Tel Aviv, 451-260
	C20	
Examiner		Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>		